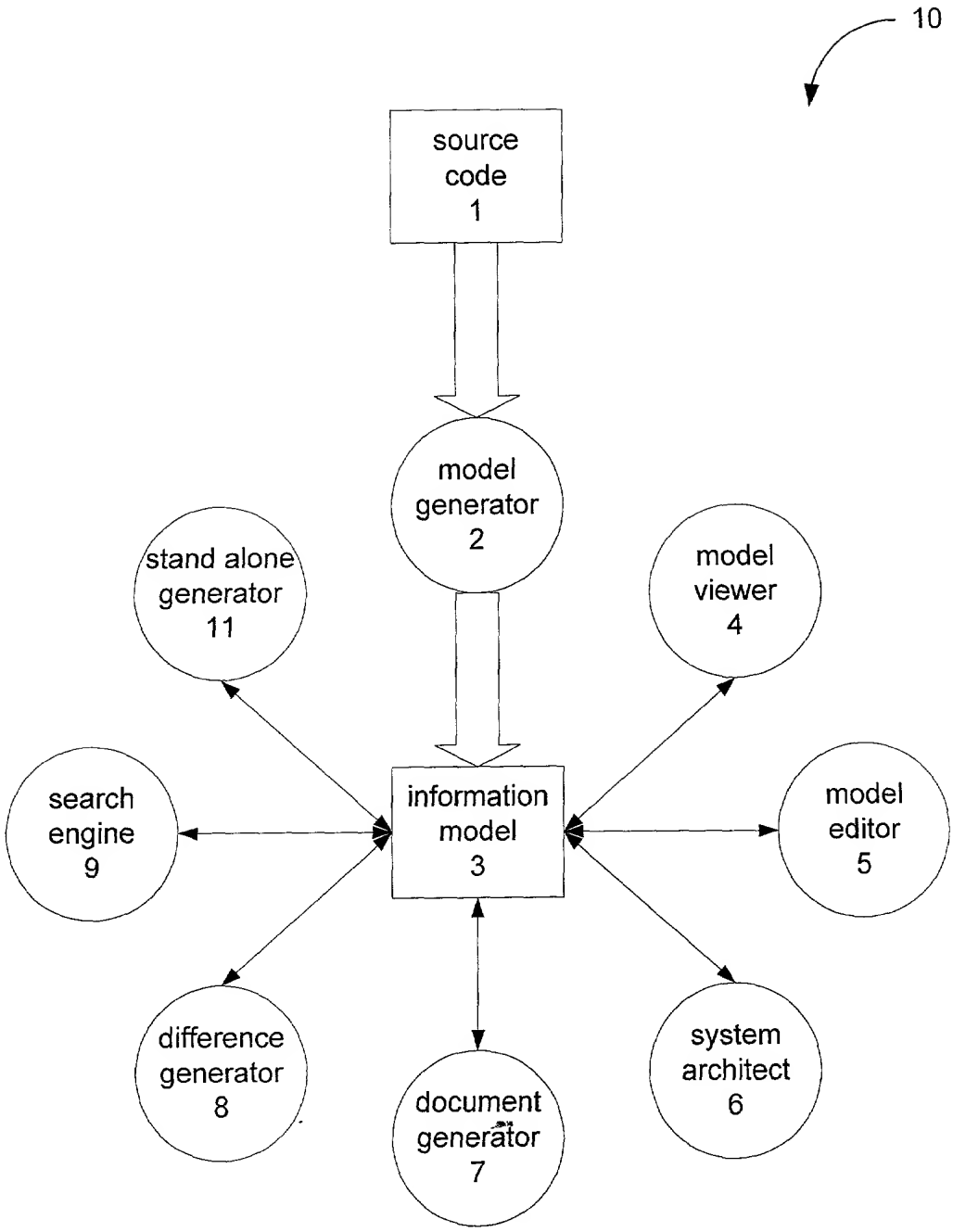

10
source code 1
model generator 2
stand alone generator 11
model viewer 4
search engine 9
information model 3
model editor 5
difference generator 8
document generator 7
system architect 6

FIG. 1

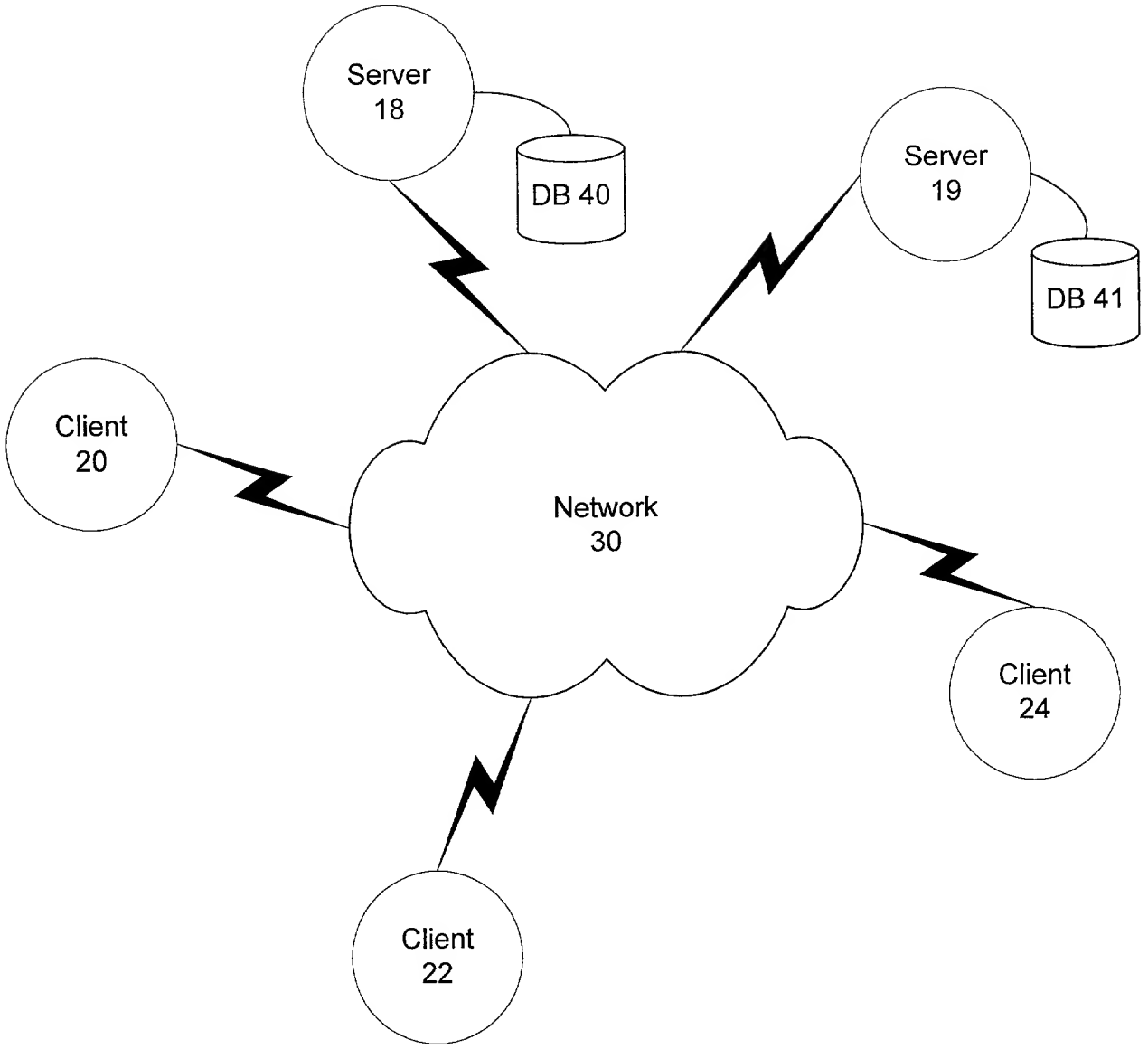

Server
18
DB 40
Server
19
DB 41
Client
20
Network
30
Client
24
Client
22

FIG. 2

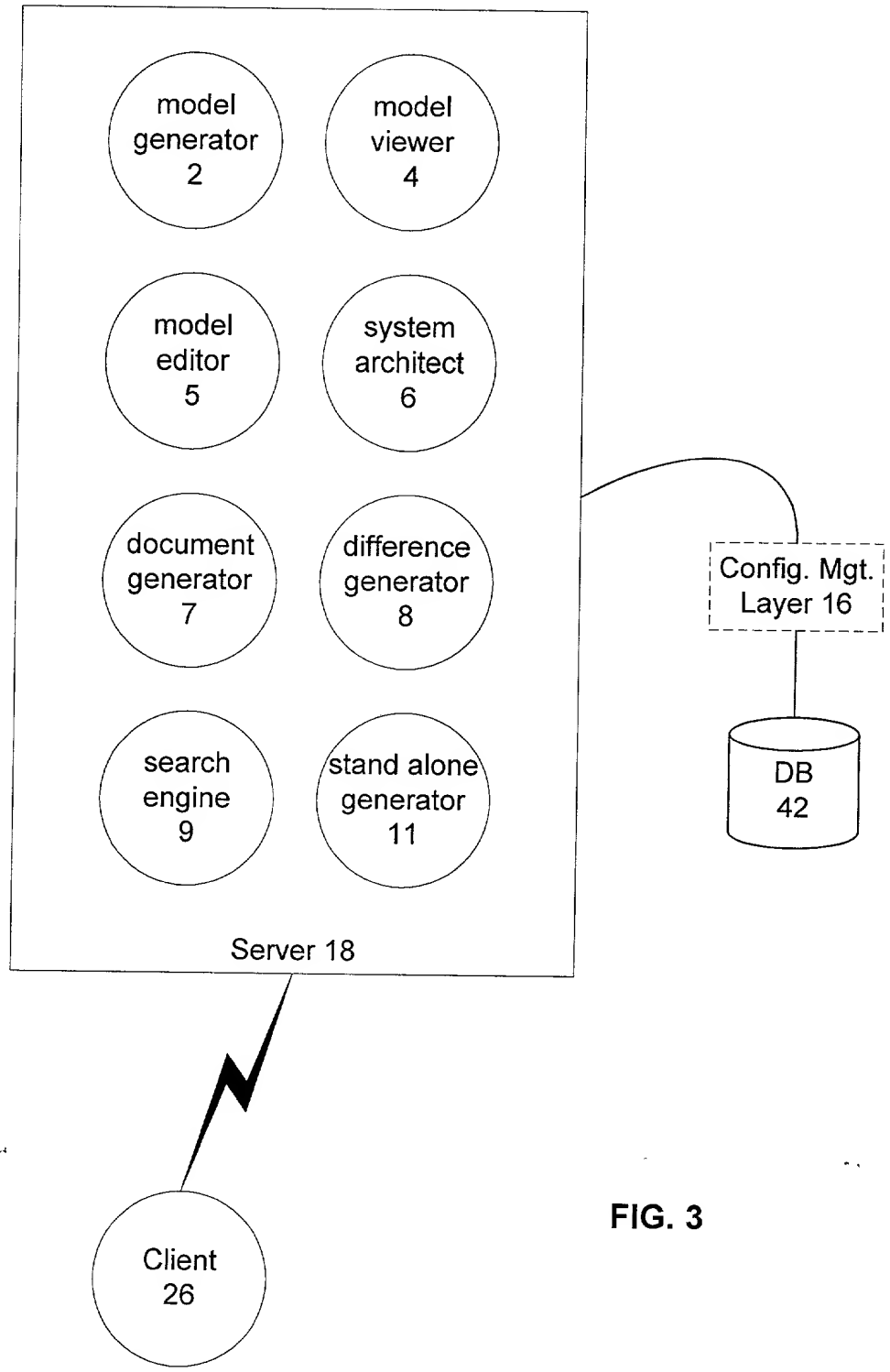

model generator 2
model viewer 4
model editor 5
system architect 6
document generator 7
difference generator 8
search engine 9
stand alone generator 11
Server 18
Config. Mgt. Layer 16
DB 42
Client 26

FIG. 3

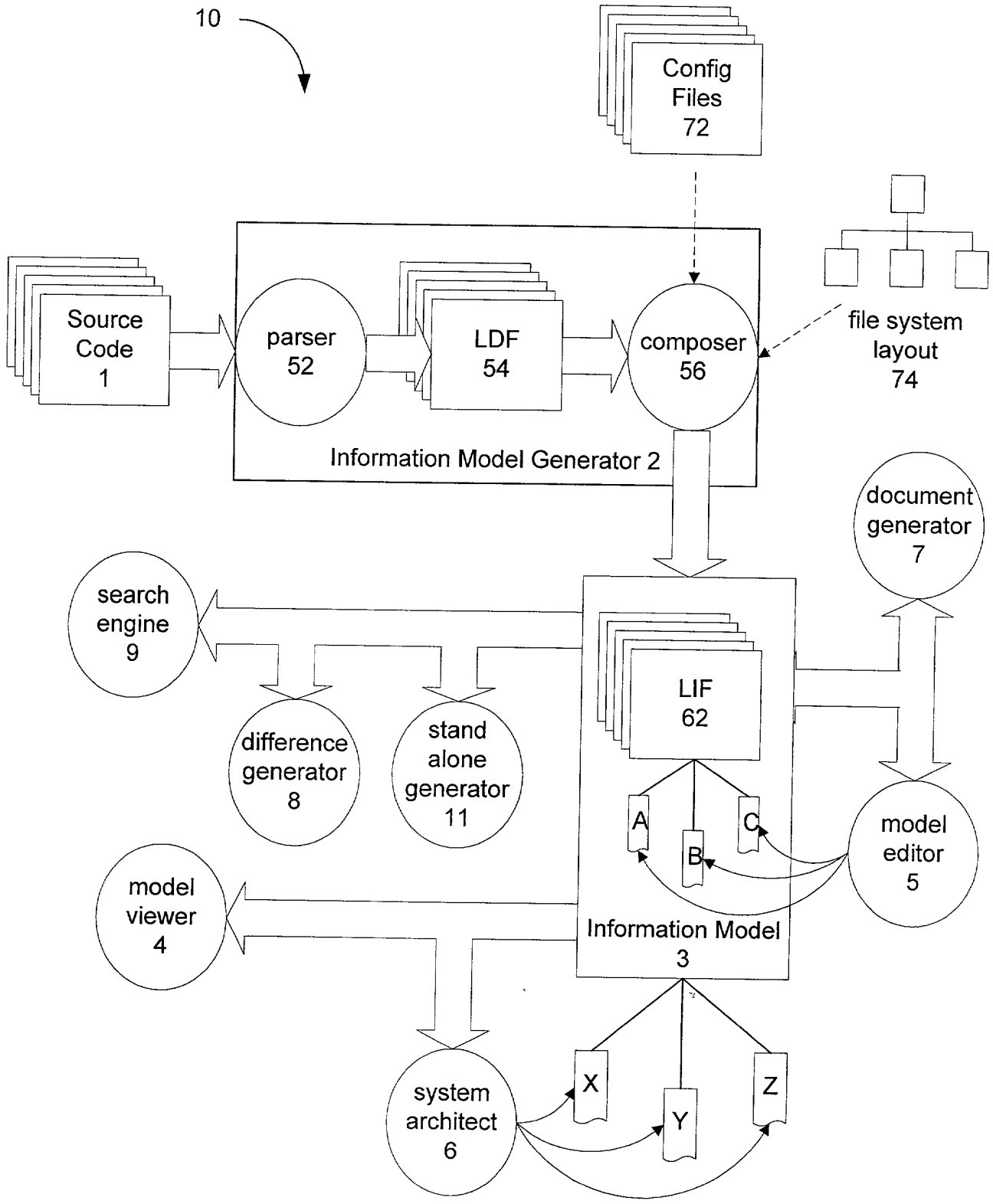

10
Config Files 72
Source Code 1
parser 52
LDF 54
composer 56
file system layout 74
Information Model Generator 2
document generator 7
search engine 9
LIF 62
difference generator 8
stand alone generator 11
A
B
C
model editor 5
model viewer 4
Information Model 3
system architect 6
X
Y
Z

FIG. 4

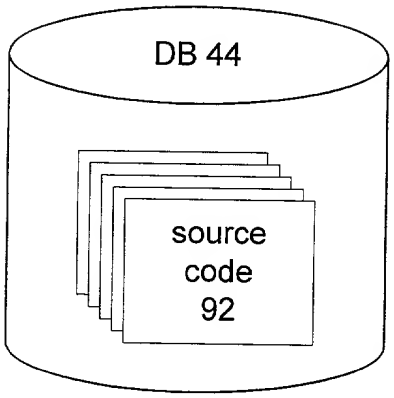


FIG. 5

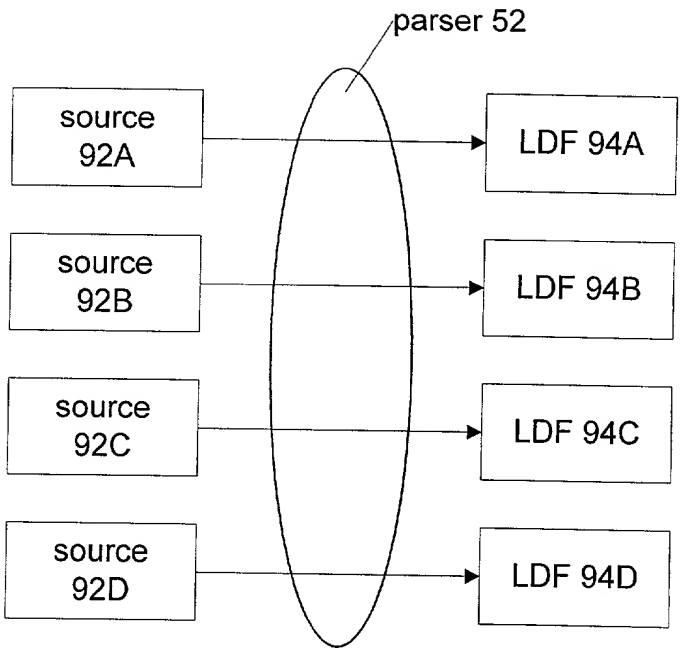


FIG. 5A

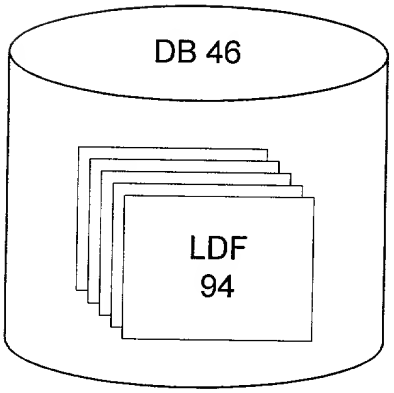


FIG. 6

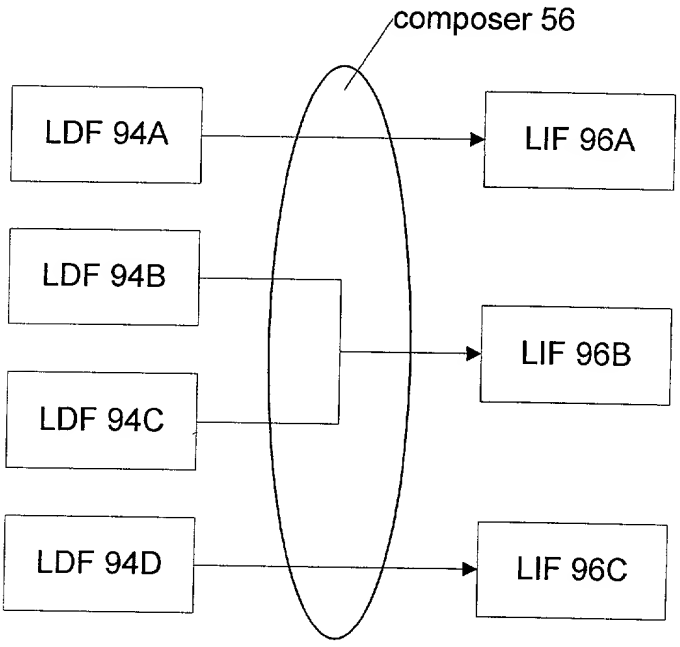


FIG. 6A

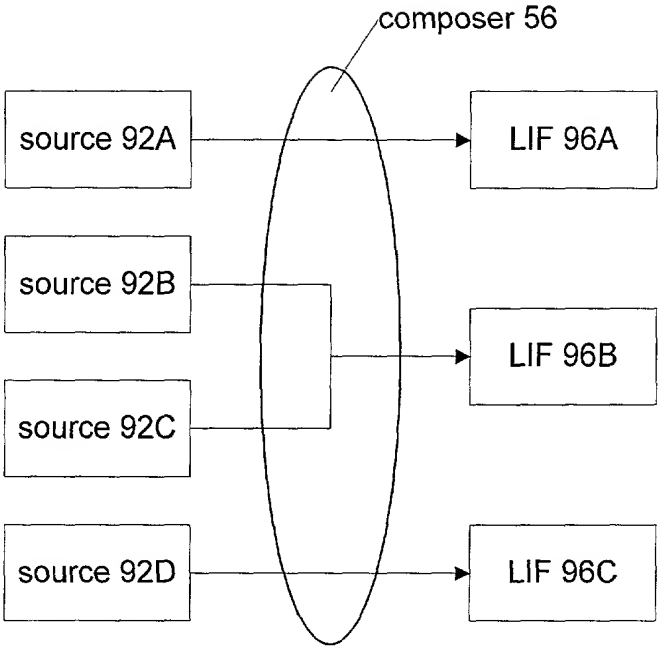

composer 56
source 92A
source 92B
source 92C
source 92D
LIF 96A
LIF 96B
LIF 96C

FIG. 6B

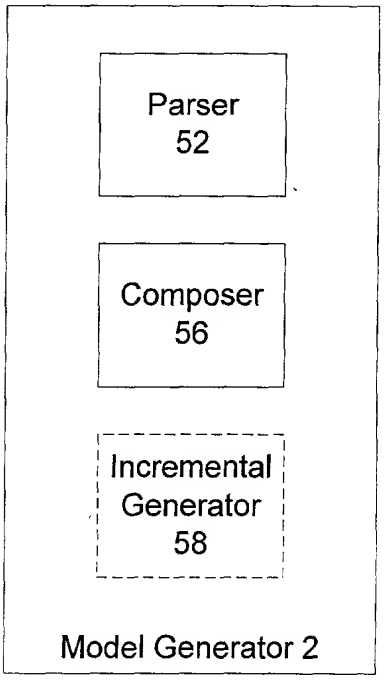

Parser
52
Composer
56
Incremental
Generator
58
Model Generator 2

FIG. 7

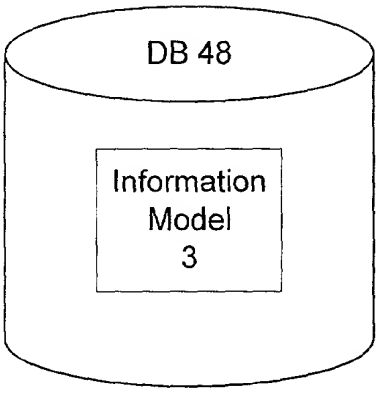

DB 48
Information Model 3

FIG. 8

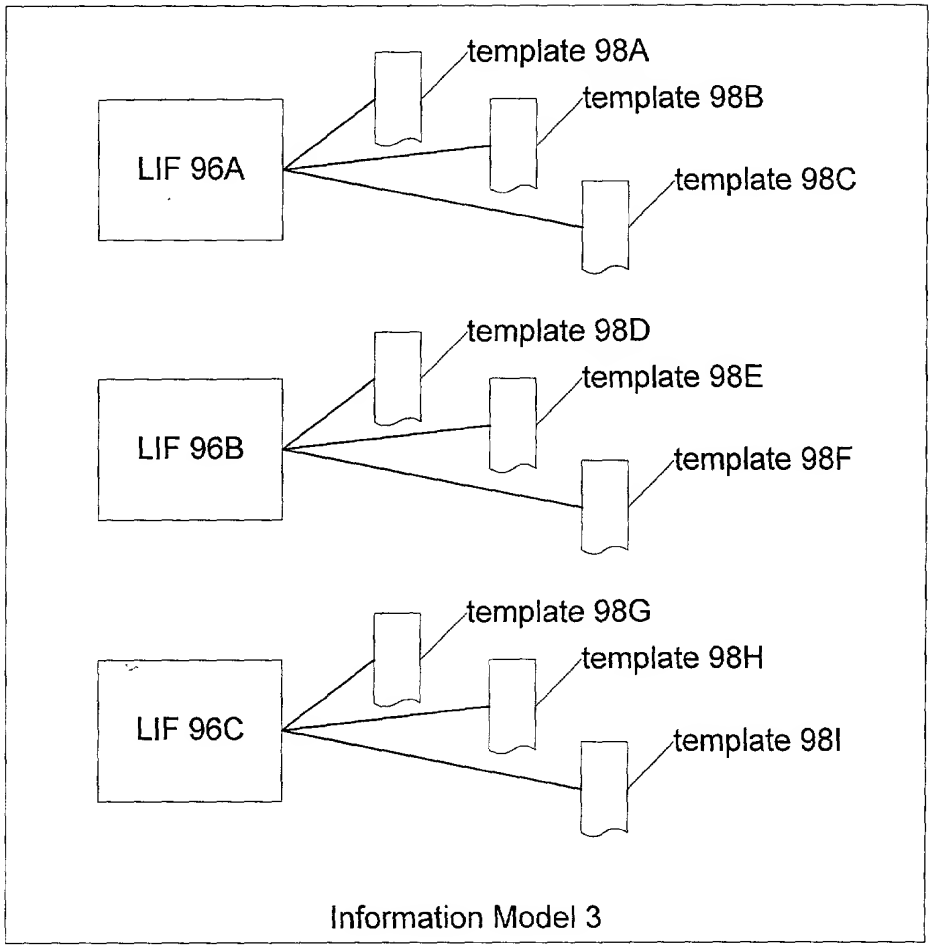

template 98A
template 98B
LIF 96A
template 98C
template 98D
template 98E
LIF 96B
template 98F
template 98G
template 98H
LIF 96C
template 98I
Information Model 3

FIG. 8A

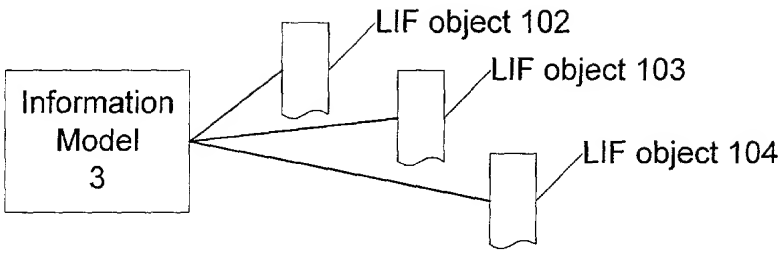

Information Model 3
LIF object 102
LIF object 103
LIF object 104

FIG. 8B

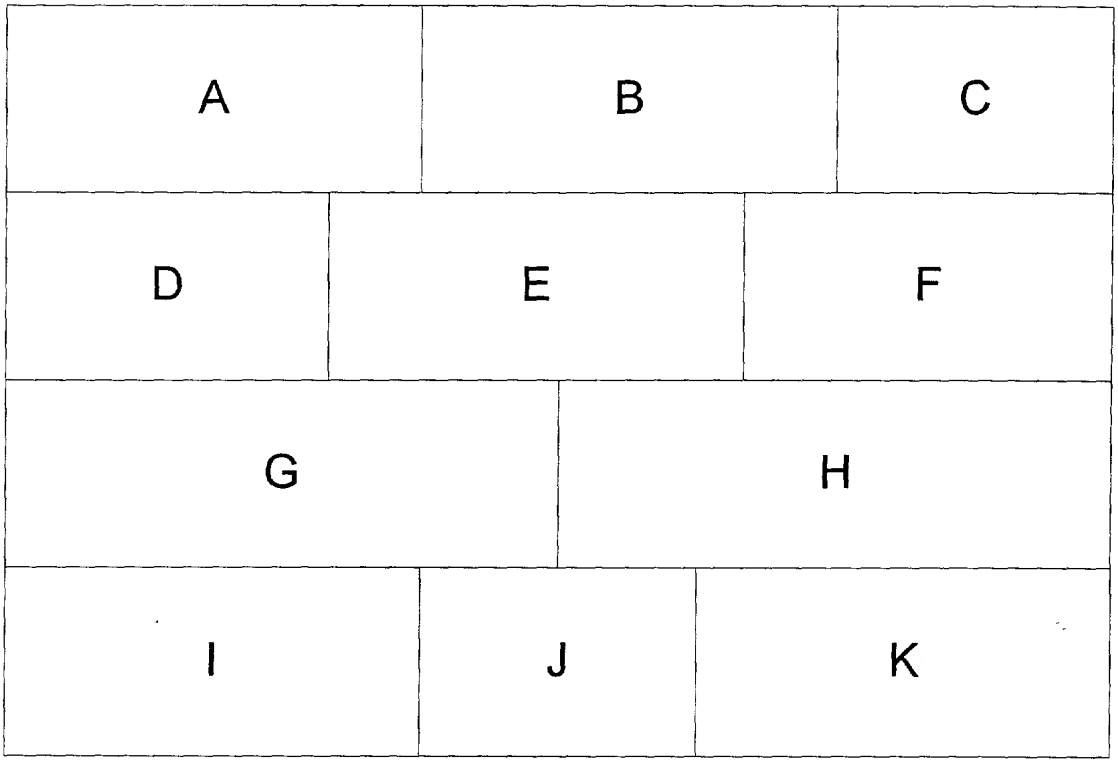

A
B
C
D
E
F
G
H
I
J
K

FIG. 8C

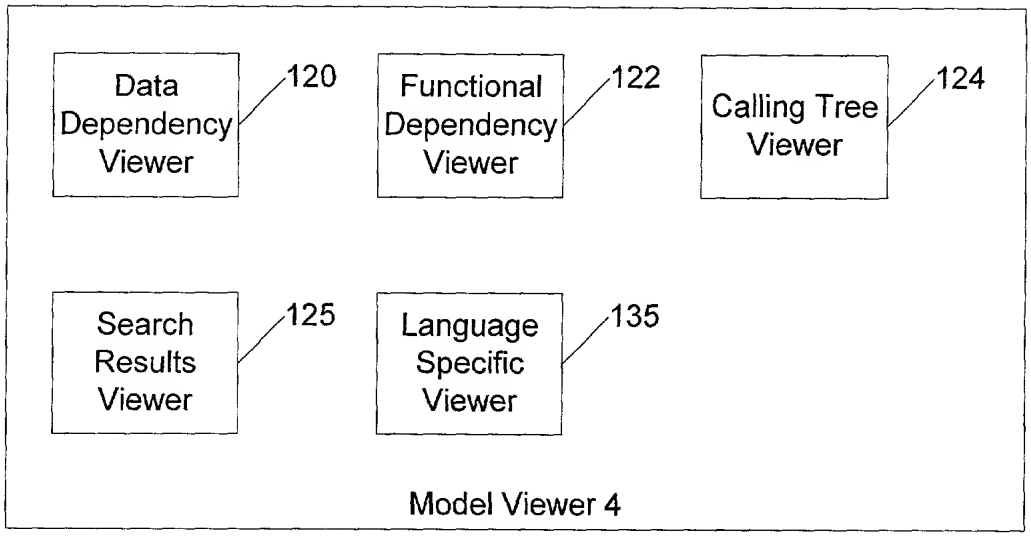

Data Dependency Viewer
120
Functional Dependency Viewer
122
Calling Tree Viewer
124
Search Results Viewer
125
Language Specific Viewer
135
Model Viewer 4

FIG. 9

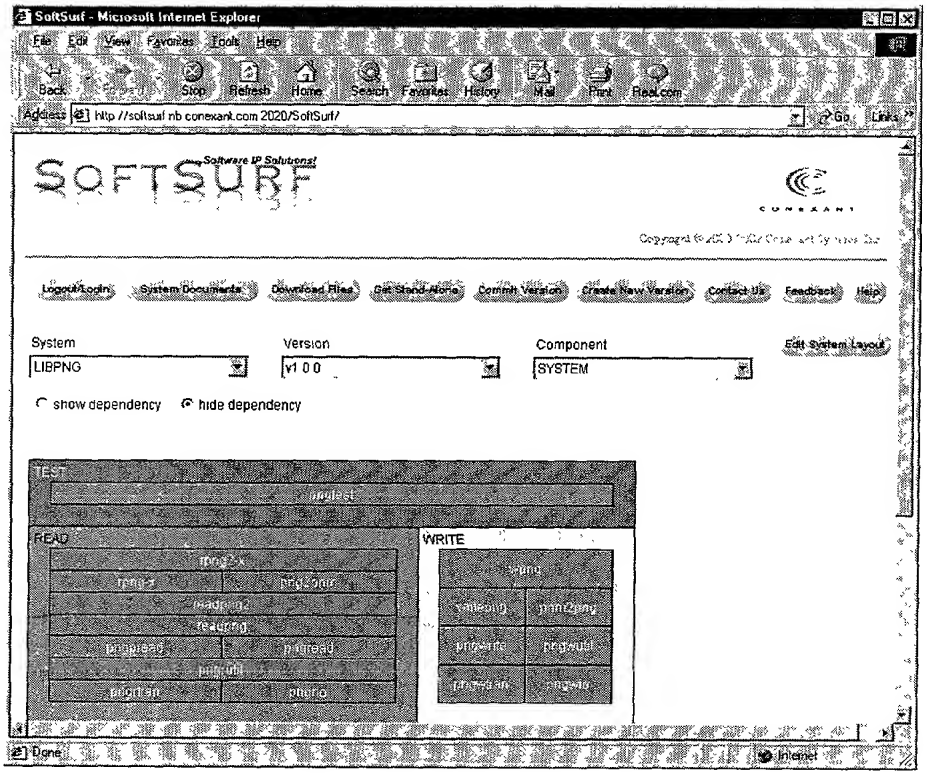

SoftSurf - Microsoft Internet Explorer
SOFTSURF
Software IP Solutions!
System
LIBPNG
Version
v1 0 0
Component
SYSTEM
show dependency
hide dependency
READ
WRITE

FIG. 9A

FIG. 9B

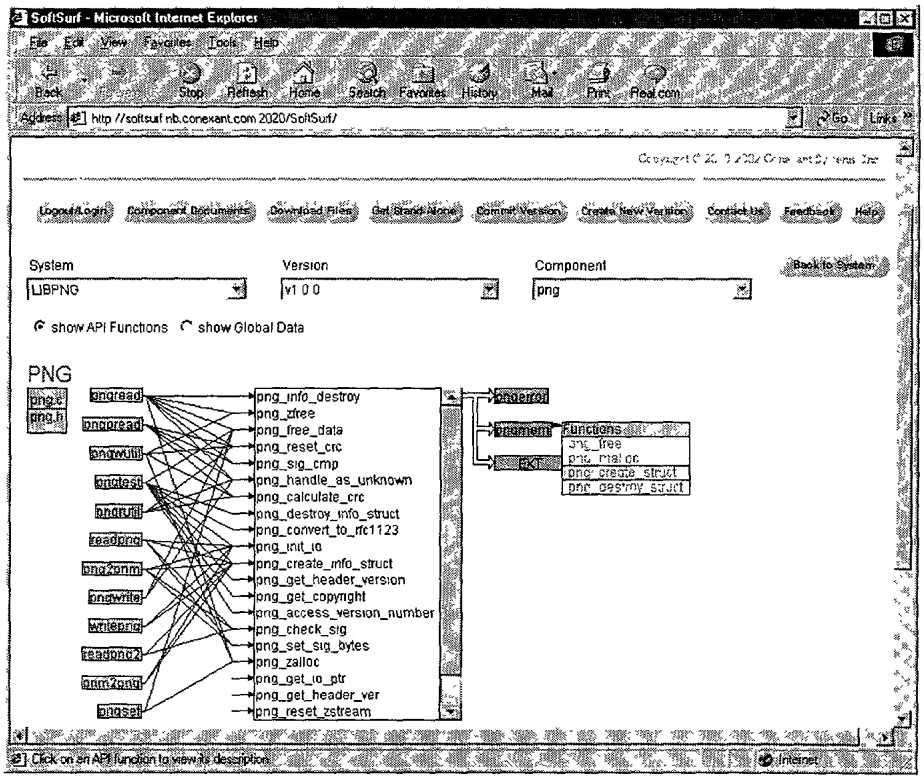
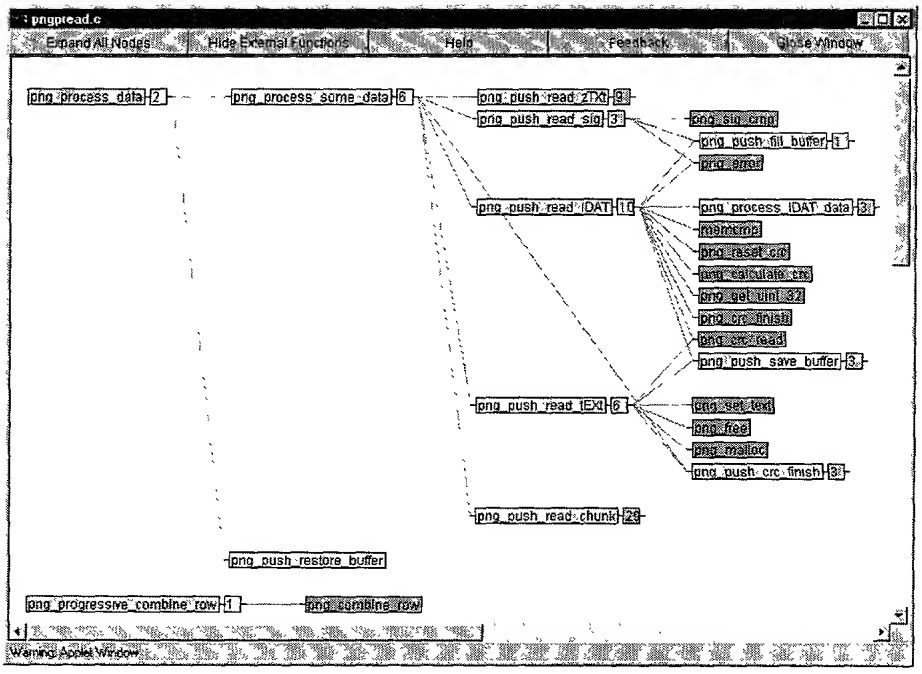

SoftSurf - Microsoft Internet Explorer
System
LIBPNG
Version
v1 0 0
Component
png
show API Functions
show Global Data
PNG
png.c
png.h
pngread
pngpread
pngwutil
pngtest
pngrutil
readpng
png2pnm
pngwrite
writepng
readpng2
pnm2png
pngset
png_info_destroy
png_zfree
png_free_data
png_reset_crc
png_sig_cmp
png_handle_as_unknown
png_calculate_crc
png_destroy_info_struct
png_convert_to_rfc1123
png_init_io
png_create_info_struct
png_get_header_version
png_get_copyright
png_access_version_number
png_check_sig
png_set_sig_bytes
png_zalloc
png_get_io_ptr
png_get_header_ver
png_reset_zstream
pngerror
pngmem
PNG
Functions
png_free
png_malloc
png_create_struct
png_destroy_struct
Click on an API function to view its description
Internet

FIG. 9C


pngpread.c
Expand All Nodes
Hide External Functions
Help
Feedback
Close Window
png_process_data 2
png_process_some_data 6
png_push_read_zTXt 3
png_push_read_sig 3
png_sig_cmp
png_push_fill_buffer 1
png_error
png_push_read_IDAT 1
png_process_IDAT_data 3
png_reset_crc
png_calculate_crc
png_get_uint_32
png_crc_finish
png_crc_read
png_push_save_buffer 3
png_push_read_tEXt 6
png_set_text
png_free
png_malloc
png_push_crc_finish 3
png_push_read_chunk 29
png_push_restore_buffer
png_progressive_combine_row 1
png_combine_row
Warning: Applet Window

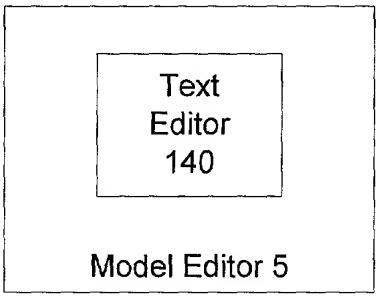


FIG. 10

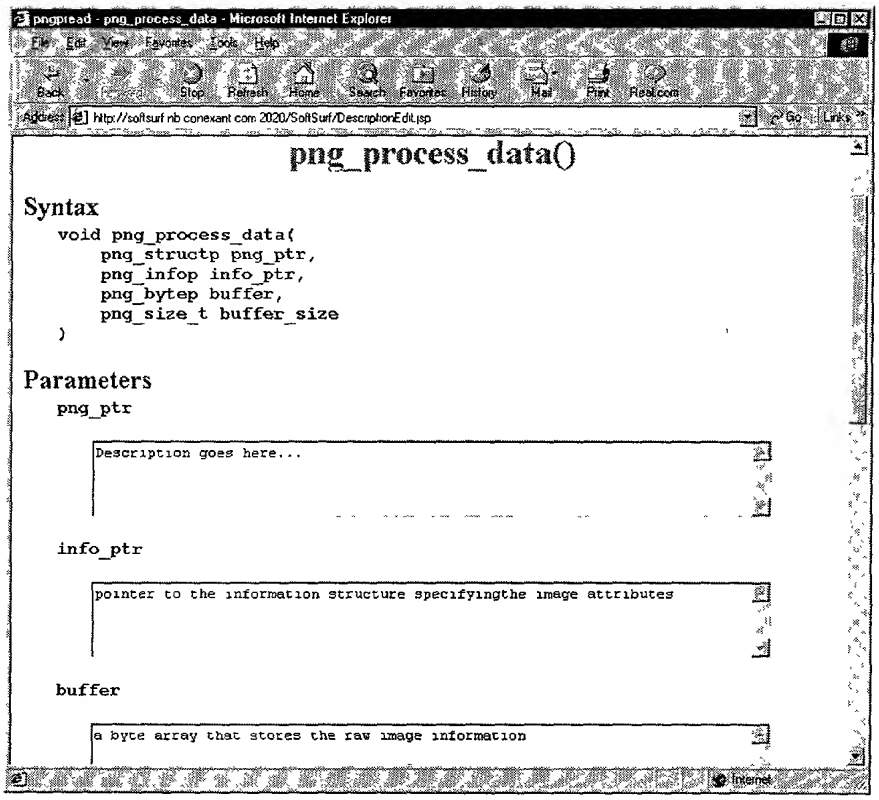


FIG. 10A

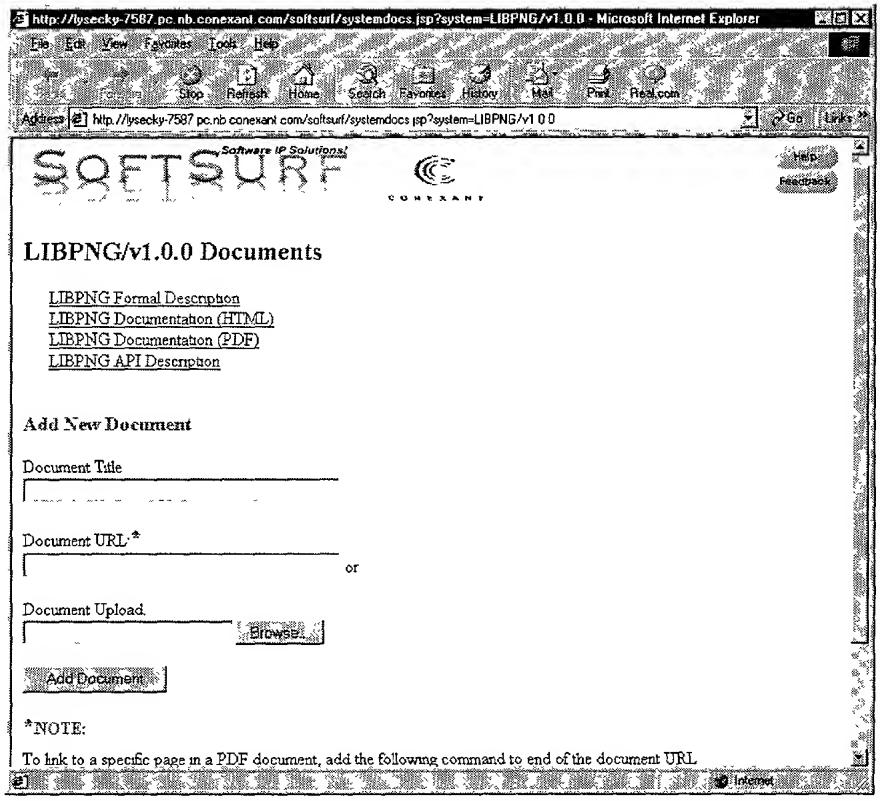


FIG. 10B

Express Mail Number: EL356083517US

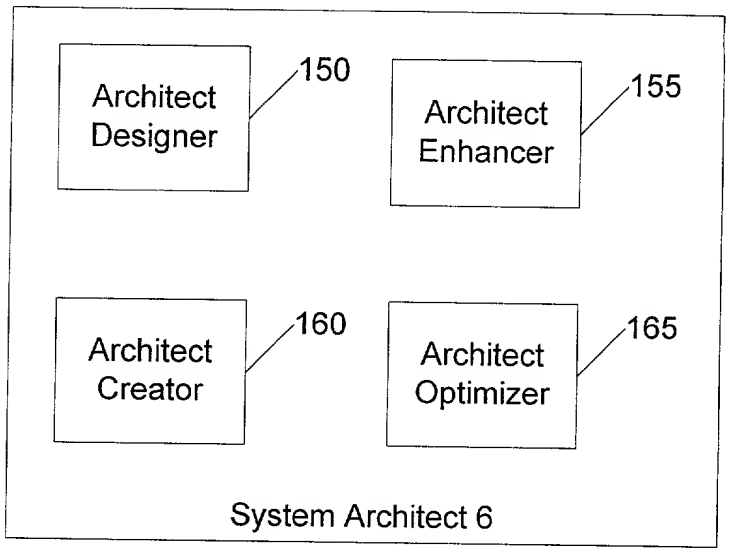


FIG. 11

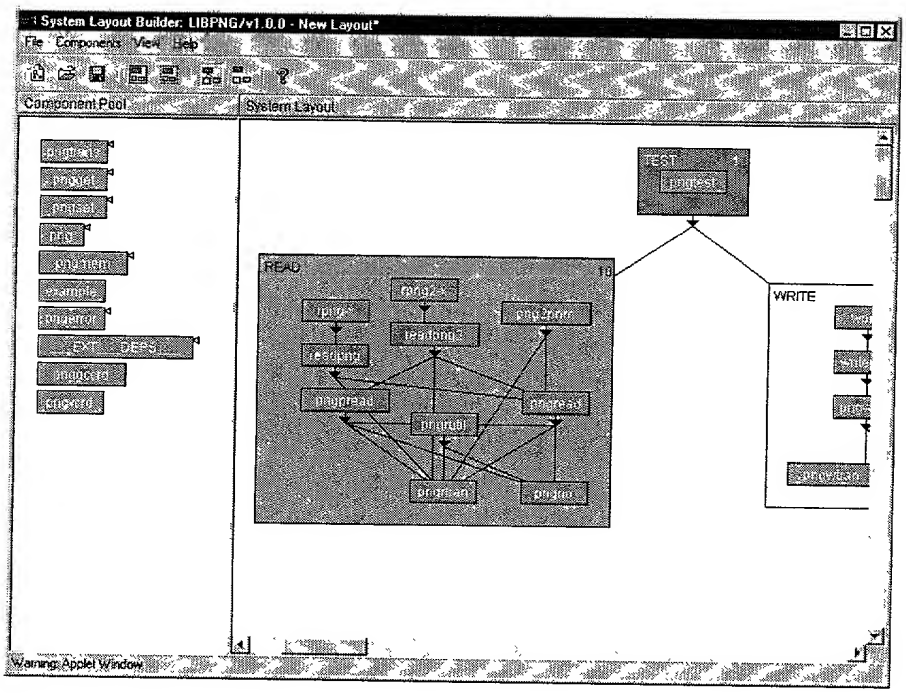


FIG.11A

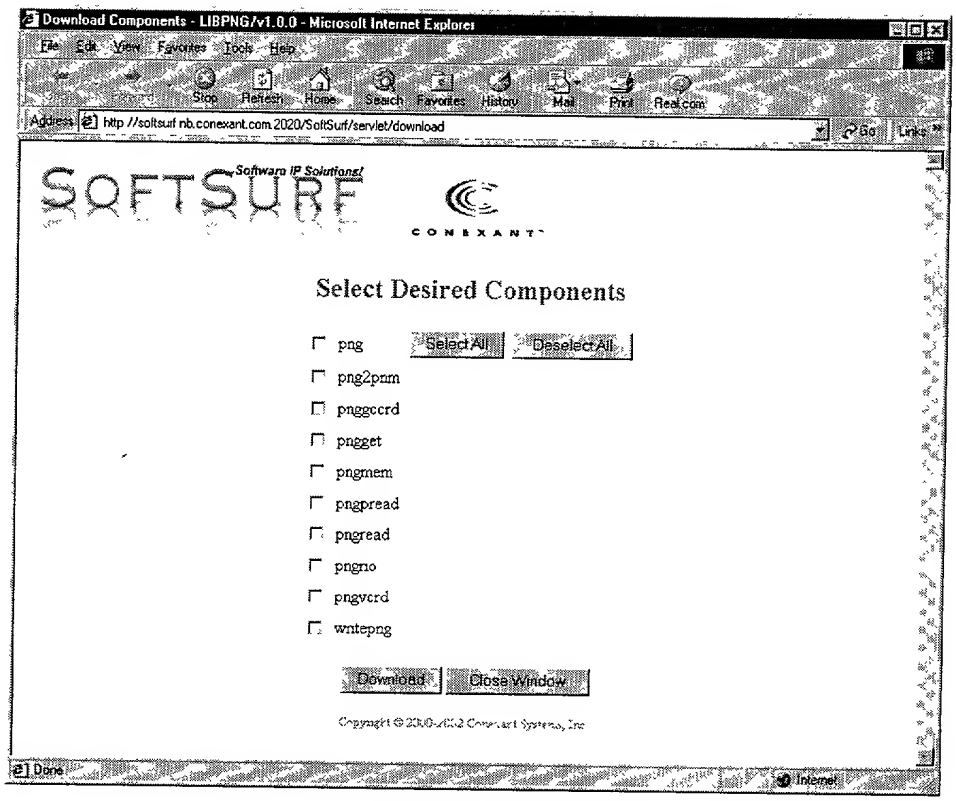

Download Components - LIBPNG/v1.0.0 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Stop Refresh Home Search Favorites History Mail Print Real.com
Address http://softsurf.nb.conexant.com:2020/SoftSurf/servlet/download
Go Links
SOFTSURF
Software IP Solutions!
CONEXANT
Select Desired Components
png
Select All
Deselect All
png2pnm
pnggccrd
pngget
pngmem
pngpread
pngread
pngrio
pngvcrd
wntepng
Download
Close Window
Done
Internet

FIG. 12

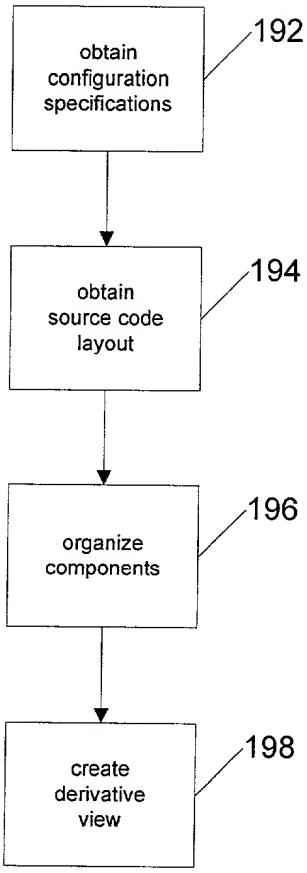

obtain configuration specifications
192
obtain source code layout
194
organize components
196
create derivative view
198

FIG. 13

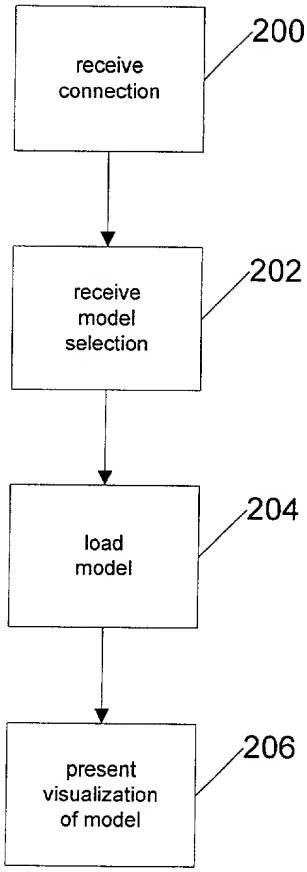

receive connection
200
receive model selection
202
load model
204
present visualization of model
206

FIG. 14

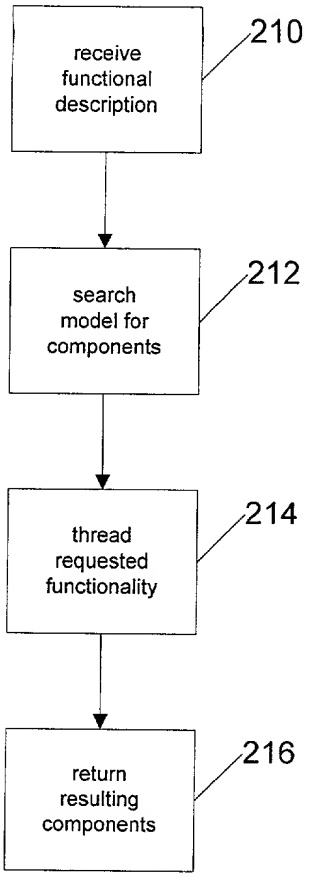


FIG. 15

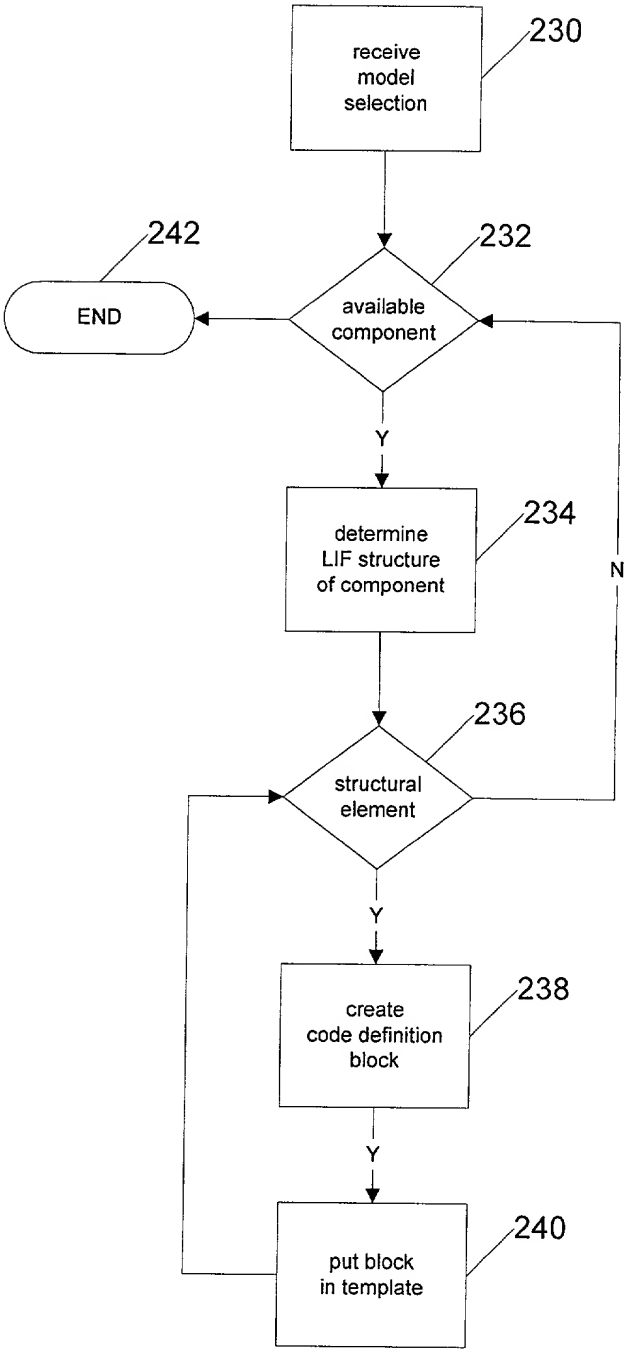


FIG. 17

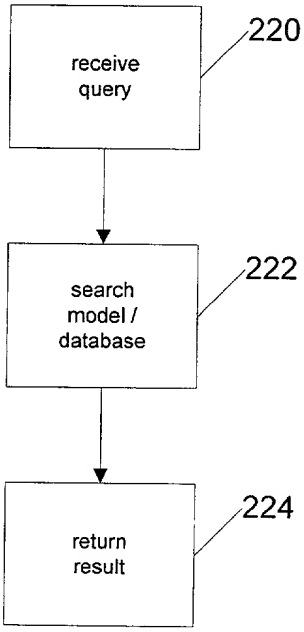


FIG. 16

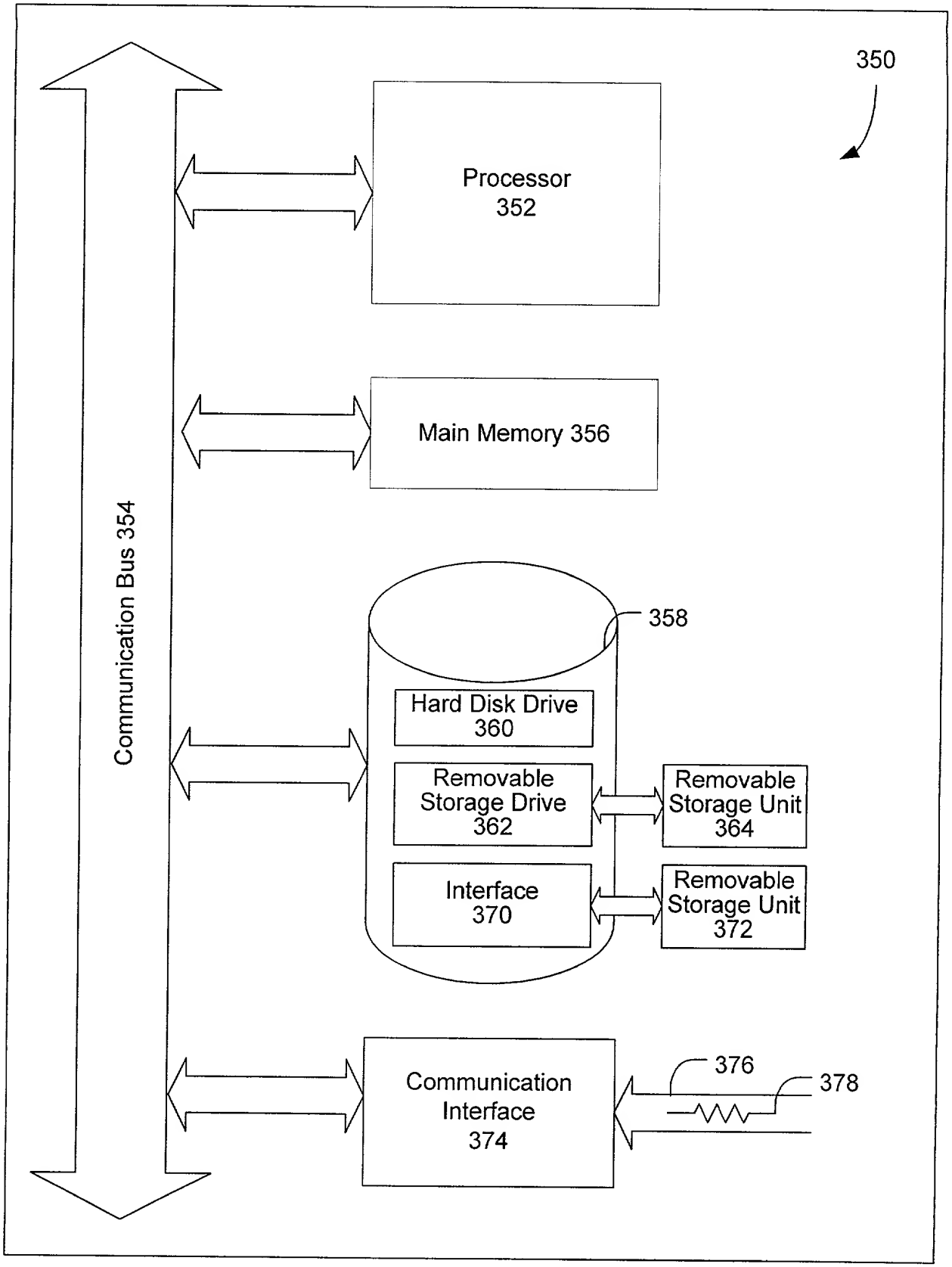

350
Processor
352
Main Memory 356
Communication Bus 354
358
Hard Disk Drive
360
Removable
Storage Drive
362
Removable
Storage Unit
364
Interface
370
Removable
Storage Unit
372
Communication
Interface
374
376
378

FIG. 18